TABLE OF CONTENTS

Volume 41

ARTICLES

ABAD, ALBERTO J. and JOSÉ A. DOCOBO / The Application of Hierarchical Relative Coordinates to the Analysis of the Movement of Subsystems of Many-	
Body Problems	333
AGUILAR, LUIS A. / Dissipationless Collapse and the Formation of Elliptical	
Galaxies	3
BABADZANJANZ, L. K. and V. A. BRUMBERG / Influence of a Hyperbolic	
Flyby of a Small Mass on the Orbital Evolution of a Massive Binary	313
CABRAL, H. E. / The Masses in an Isosceles Solution of the Three Body Problem	175
CHAPSIADIS, A. and M. MICHALODIMITRAKIS / Bounded Motion in a Two-	
Body System Consisting of a Solid Body and a Material Point	53
DANBY, J. M. A. / Teaching Orbits with the Aid of the Personal Computer	51
ELMABSOUT, B. / Sur l'Existence de certaines configurations d'equilibre relatif	
dans le problème des N corps	131
FERRÁNDIZ, J. M. / A General Canonical Transformation Increasing the Number	
of Variables with Application to the Two-Body Problem	343
GORRINGE, V. M. and P. G. L. LEACH / Hamilton-Like Vectors for a Class of	
Kepler Problems with a Force Proportional to the Velocity	125
HITZL, DONALD and FRANK ZELE / Application of the Integral Variation	
Method to Satellite Orbit Prediction	65
HOWELL, K. C. and H. J. PERNICKA / Numerical Determination of Lissajous	
Trajectories in the Restricted Three-Body Problem	107
JEFFERYS, W. H., M. J. FITZPATRICK, and B. E. McARTHUR / GaussFit - A	
System for Least Squares and Robust Estimation	39
KARABALLI, A. A. / On the Ejection Solutions in a Central Force Field	323
KUMAR, VIJAY and R. K. CHOUDHRY / On the Stability of the Triangular	
Libration Points for the Photogravitational Circular Restricted Problem of Three	
Bodies under the Resonances of the Third and the Fourth Order	161
MAVRAGANIS, A. et C. PANGALOS / La periodicité et la symétrie du mouve-	
ment équatorial au problème magnétique-binaire	371
MILANI, ANDREA and ANNA M. NOBILI / Instability of the 2+2 Body Problem	153
	133
PASCAL, MADELEINE / Dynamics Analysis of a System of Hinge-Connected Flexible Bodies	253
SÔMA, M. TH. HIRAYAMA, and H. KINOSHITA / Analytical Expressions of the	
Earth's Position and Velocity for the Calculation of Apparent Positions	389
SANSATURIO, M. E. and A. VIGUERAS / Translatory-Rotator Motion of a	
Gyrostat in a Newtonian Force Field	297
SĚGAN, S. / Analytical Computation of Atmospheric Drag Effects	381
and a supplemental and a supplem	

TABLE OF CONTENTS

SERAFIN, RICHARD A. / Admissible Orbits in the Oort Cloud and Velocities on such Orbits	79
SIMÓ, CARLES and REGINA MARTÍNEZ / Qualitative Study of the Planar	170
Isosceles Three-Body Problem VIVARELLI, MARIA DINA / Geometrical and Physical Outlook on the Cross	179
Product of Two Quaternions	359
YEHIA, H. M. / Equivalent Problems in Rigid Body Dynamics - II	289
YEHIA, H. M. / Equivalent Problems in Rigid Body Dynamics - I	275
YOKOYAMA, TADASHI, MASSAE SATO, and MASAYOSHI TSUCHIDA /	
Some Instabilities in the 3/1 and 2/1 Resonances	99
CELESTIAL MECHANICS LETTERS	
TAFF, L. G. / Unsolved Problems of Celestial Mechanics	411
EDITORIAL NOTE	2
PUBLISHER'S ANNOUNCEMENT	1

